Defense Information Systems Agency

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Unified Capabilities Requirements (UCR) Overview

Joint Interoperability Test Command

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Agenda

UCR Overview:

- Why Unified Capabilities?
- UCR and the UC APL
- Distributed Testing
- Way Ahead

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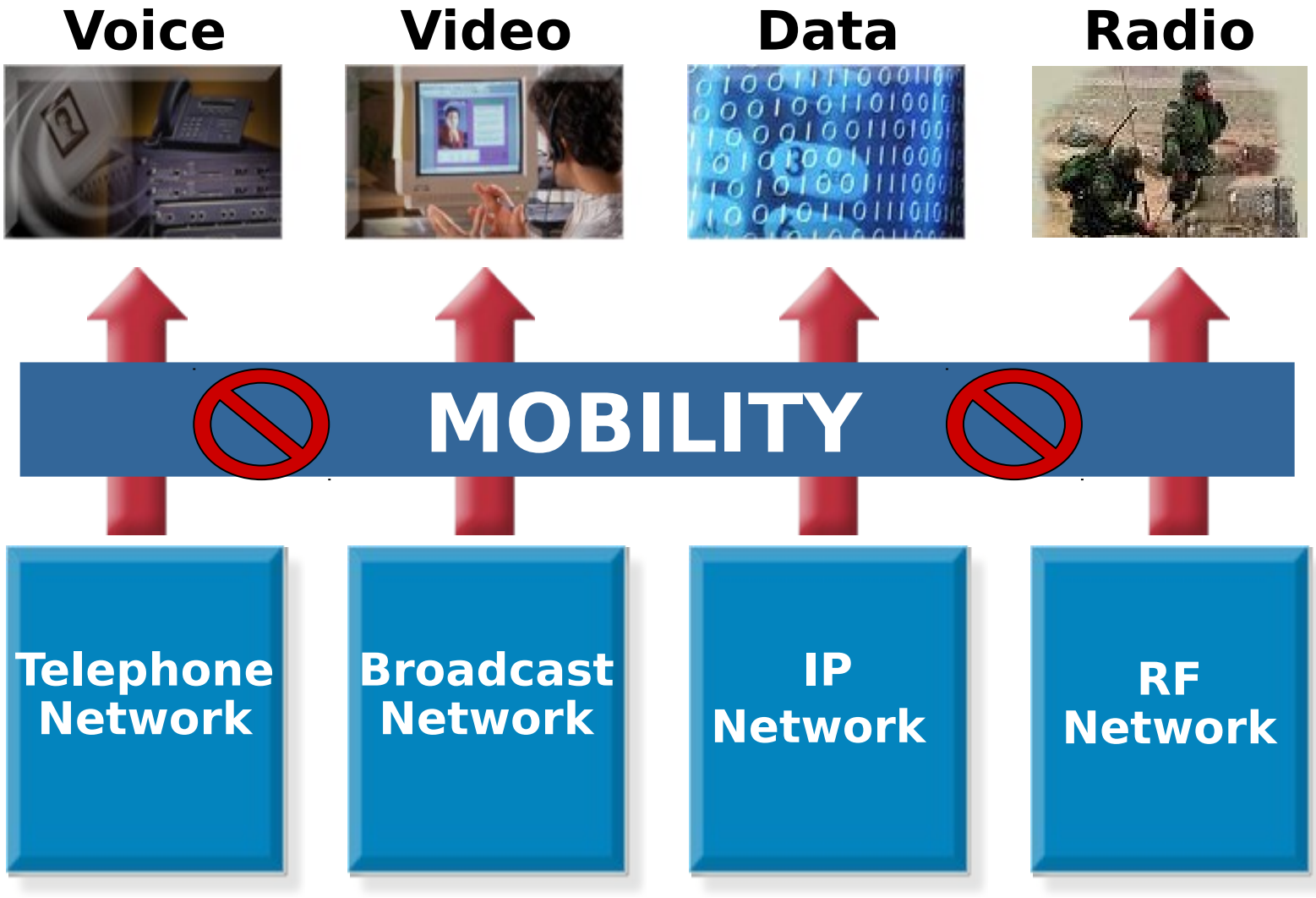
Traditional Network Approach



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Converged Network Approach

Voice | Video | Data | Radio

✓ MOBILITY ✓

Telephone Network	Broadcast Network	IP Network	RF Network

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Evolving to Unified Capabilities

Changing Communications Technology Drives Evolution

- Point-to-point ⟷ Multipoint
- Voice-only ⟷ Rich-media
- PSTN Phone devices ⟷ Multiple
- Wired ⟷ Wireless
- Non-real time ⟷ Real time
- Scheduled ⟷ Ad hoc

Unified Capabilities

The seamless integration of voice, video and data services delivered ubiquitously across a secure and highly available network infrastructure, independent of technology, to provide increased mission effectiveness to the warfighter and business communities

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UCR 2008 Objectives

- **Establish standards to develop unified capability solutions.**
  - **Identifies only the MINIMUM requirements and features applicable to all DoD networks**
  - **Does not contain a complete set of specifications for COTS features that do not affect assured services**
- **Allows for standardized Unified Capability Test Plans (UCTPs) for Interoperability (IO) and Information Assurance (IA) testing.**
- **Facilitates collaborative development of Information Support Plans (ISPs)**
  - **I.E., for programs under DoDI 4630.8 and CJCSI 6212.01E requirements.**

UC Requirements are Network Independent

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CJCSI 6212.01E and the UC APL

	6212.01E	UCR APL
Requirements	NR-KPP from, for example, Information Support Plan (ISP) or Tailored Information Support Plan (TISP)	UCR 2008
Scope	All Information Technology (IT) and National Security Systems (NSS)	Equipment and software, whether systems or services, which provide or support UC voice, video or data services
Environment	Specific implementation, tested in an operationally realistic environment	Basic configuration, tested against baseline IO and IA requirements.
Certification	NR-KPP based interoperability certification of system	Special Interoperability Certification of IO and IA requirements in the UCR 2008. Placement of product on UC APL.

Mutually supporting

UC APL products can be used as building blocks on major programs reducing test times

UCR requirements can support the development of ISPs and TISPs for major programs

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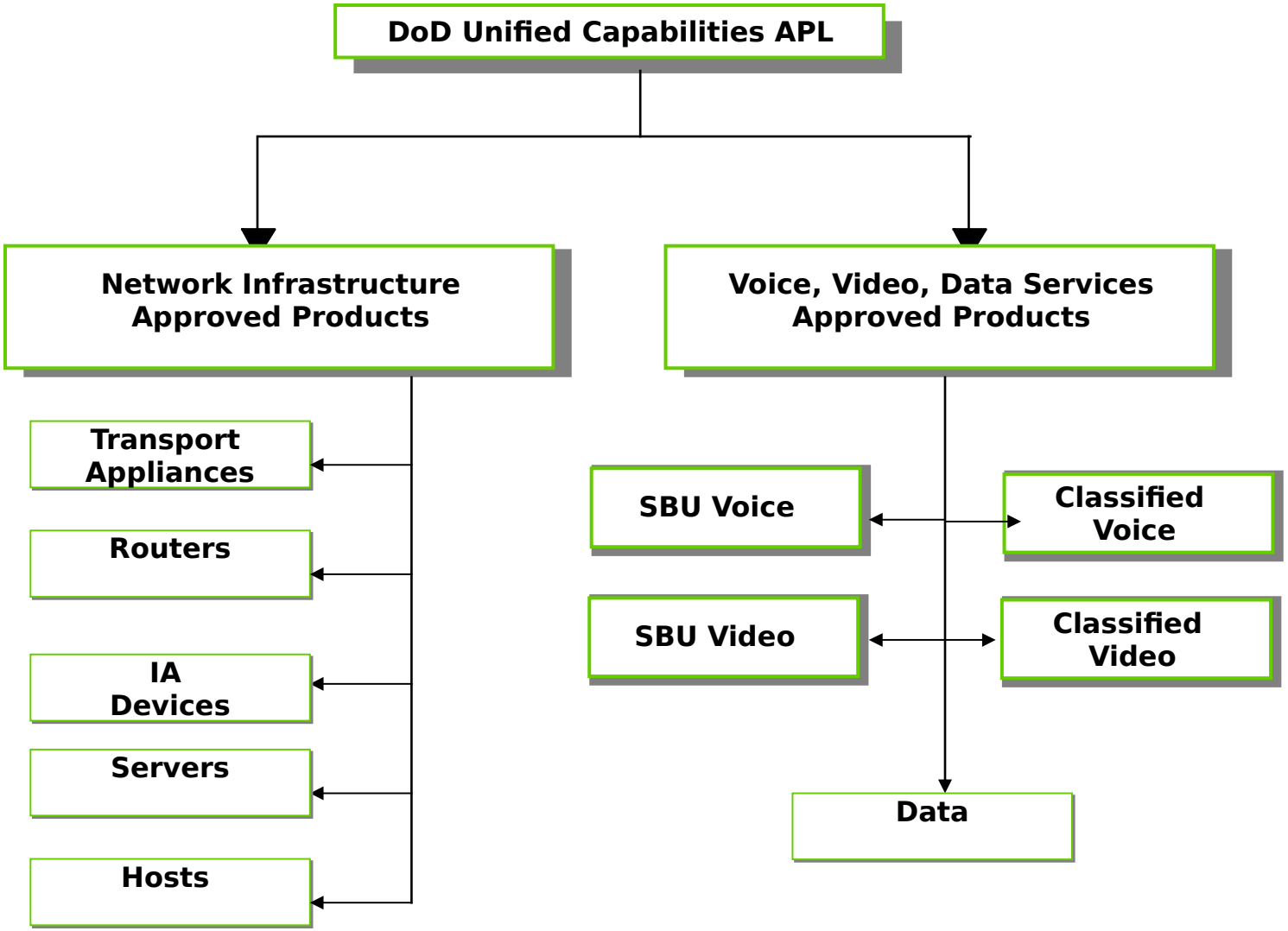
UC APL Categories



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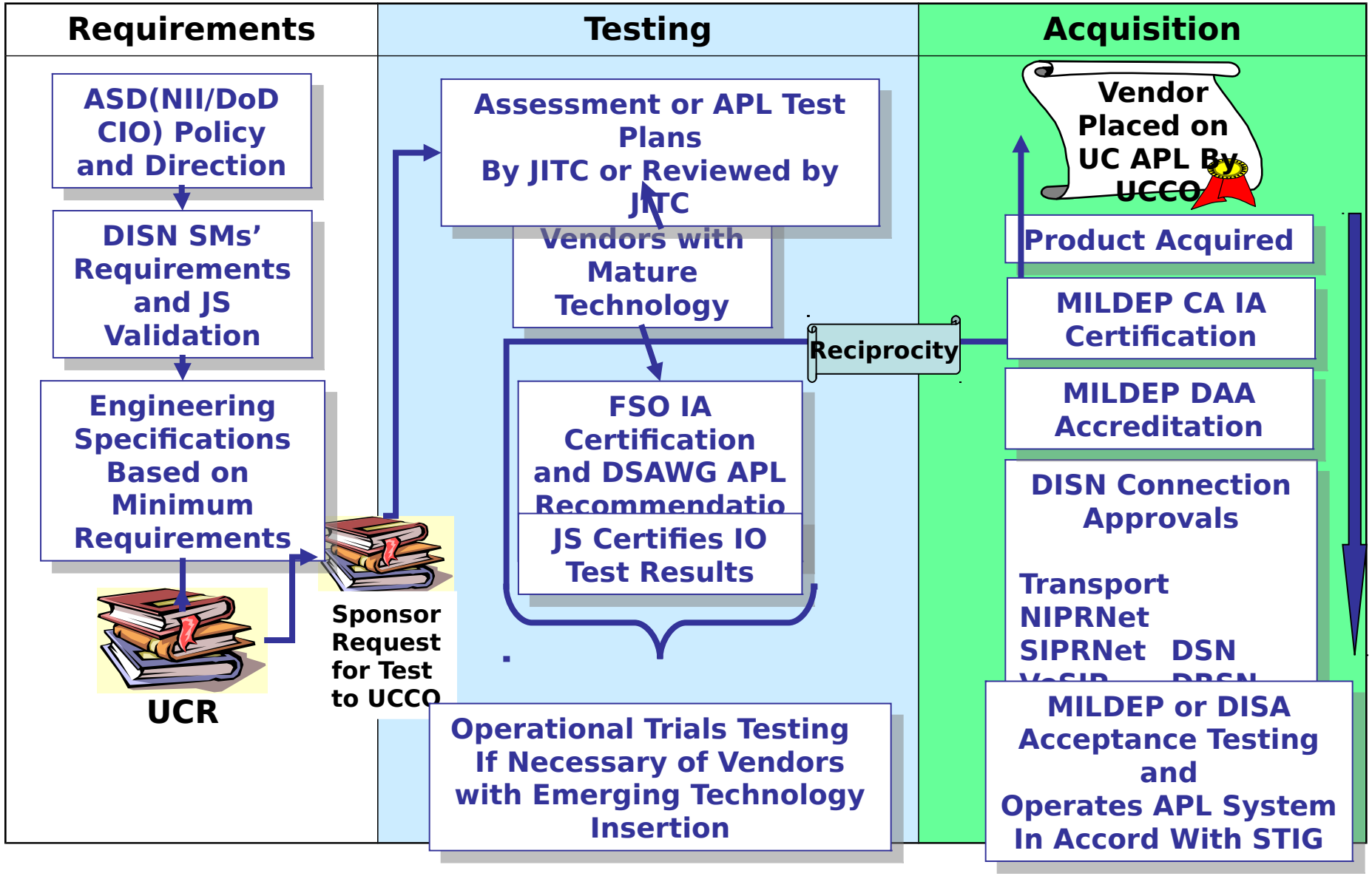
Overview of DISN APL Processes


Requirements
Testing
Acquisition
ASD(NII/DoD CIO) Policy and Direction
DISN SMs' Requirements and JS Validation
Engineering Specifications Based on Minimum Requirements
UCR
Sponsor Request for Test to UCCO
Assessment or APL Test Plans By JITC or Reviewed by JITC
Vendors with Mature Technology
FSO IA Certification and DSAWG APL Recommendatio
JS Certifies IO Test Results
Operational Trials Testing If Necessary of Vendors with Emerging Technology Insertion
Reciprocity
Vendor Placed on UC APL By UCCO
Product Acquired
MILDEP CA IA Certification
MILDEP DAA Accreditation
DISN Connection Approvals
Transport
NIPRNet
SIPRNet DSN
MILDEP or DISA Acceptance Testing and Operates APL System In Accord With STIG

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Distributed Testing Precepts (1)

- UC products shall only be tested once to gain APL status
- There shall be a single DoD UC APL for acquisition/operation of UC products
- JITC shall be the interoperability certification authority
- DISA shall serve as the UC IA certification authority for products on the APL
  - DSAWG shall serve as an advisor upon request of the DISA
  - MILDEPs' DAAs shall serve as the UC site accreditation authority
- JITC and other DISA laboratories shall be the primary test labs for DISN, and shall be responsible for emerging UC services technologies
- The MILDEP labs shall be the primary test labs for UC products which the MILDEPs acquire and deploy at Base/Camp/Post/Stations and tactical systems

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Distributed Testing Precepts (2)

- **Sponsors shall use their MILDEP's test labs as first choice. Sponsor shall only use other labs, if sponsor's lab has a test capability, resource, or schedule limitation**
  - **Sponsors or vendors shall reimburse the test labs used for T&E of UC products**
- **MILDEP test labs shall collaborate with JITC to develop the UC Test Plan (UCTP)**
- **MILDEP test labs shall provide test results, in a JITC prescribed format, for all UC product tests conducted**
- **Each MILDEP test lab shall develop its respective business model**
- **There shall be a DoD Component sponsor for each vendor product**

DISA shall manage the
UC distributed test and certification processes